



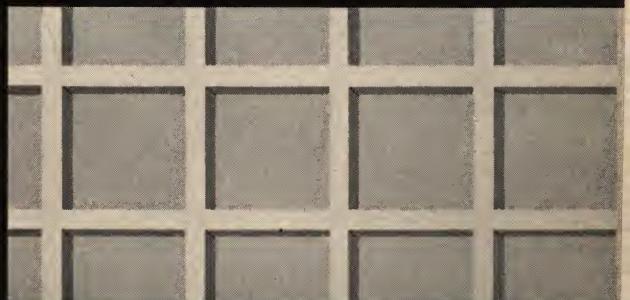
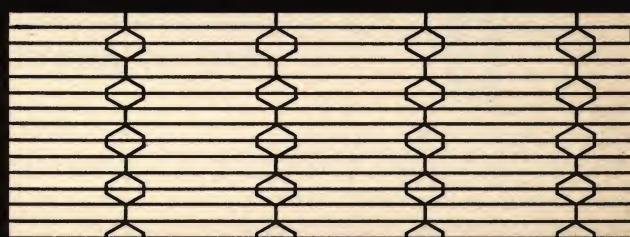
WILSON

Quality SINCE 1876

The  **WILSON** Corporation
NORFOLK, VIRGINIA

engineering specialists

- rolling steel doors
- rolling grilles
- midget slat closures
- overhead doors



16g
Wil

J. G. WILSON CORP.

WHY WILSON?

1. Experience since 1876 goes into all Wilson custom-made quality products.
2. Wilson Engineers are specialists in handling the most complex rolling door applications and installations.
3. Every Wilson door is registered, with the engineering and manufacturing records permanently maintained, for customer protection and future service.
4. Wilson will submit their design recommendation for specialized closure requirements not covered by standard design.

STANDARD SPECIFICATIONS AND SALES DRAWINGS

All Commercial Rolling Steel Doors, Underwriters' Rolling Steel Doors, Grilles and Midget Slat Shutters have detailed standard specifications designated by the same number as the corresponding sales drawing shown in the following pages of this catalog. These standard specifications and sales drawings are available upon request at no charge by return mail:

Address: The J. G. Wilson Corporation
P. O. Box 599
Norfolk 1, Virginia

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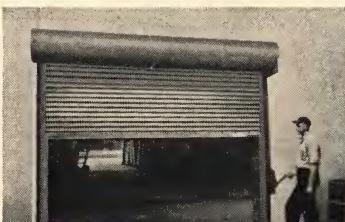
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**ROLLING STEEL DOORS
COMMERCIAL
non-labeled**

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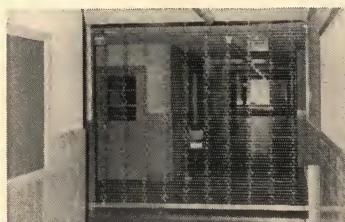
pages 4-9



**ROLLING STEEL DOORS
UNDERWRITERS
labeled**

b

pages 10-15



**GRILLES
steel or aluminum**

c

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**MIDGET SLAT
CLOSURES**

d

pages 18-19



**SECTIONFOLD
OVERHEAD DOORS
wood or steel**

e

pages 20-21



**SPECIAL
PRODUCTS**

f

pages 22-25



Commercial non-labeled

The mechanical features of Wilson Commercial Rolling Steel doors are designed to insure simple, easy operation and long life. Their efficiency has been tested and proved under all types of exposure and use. Wilson Standard Commercial Rolling Steel doors are for ordinary service. They are not restricted as to size or area, nor do they have automatic closing features. There are four general types of operation:

Self-coiling—Manually operated, standard for small openings.

Chain geared—Chain-gear operated, for medium and large openings.

Crank geared—Available as an Extra if specified.

Motor operated—Generally used for large openings or for large doors requiring quick operation by remote control.

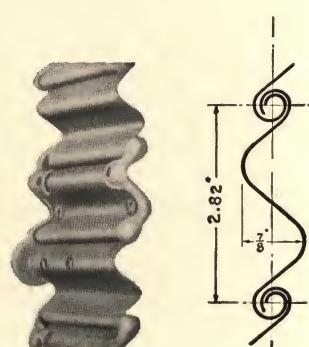
features

The Wilson curtain is composed of a series of cold rolled interlocking slats, formed from galvanized steel, which metal and protection are conceded to be more effective in retarding corrosion than any other similar product. The galvanized coating does not fracture by bending and will not peel. Absence of all sharp bends further insures maximum galvanic protection.

Slat design

over 10' wide

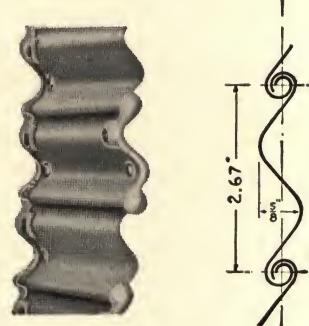
The Big 4 has $\frac{1}{8}$ inch corrugations providing greater strength and protection of interlocking joints. Use of end shields takes wear of sliding in channel, adding considerably to the life of door. The slat is made in Nos. 22, 20, 18 and 16 U.S. Standard gauges, depending upon size.



Big 4 slat

up to 10' wide

These slats are similar to the Big 4 type, except that the corrugations are $\frac{5}{8}$ in. deep instead of $\frac{1}{8}$ in.

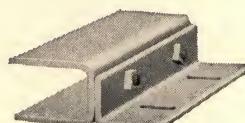


Little 4 slat

Groove design

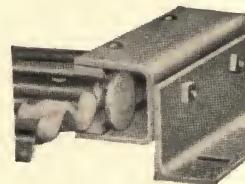
standard

Standard equipment on doors 14'5" and under in width. The generous depth of the groove assures the retention of the curtain under normal wind pressures.



safety

Standard equipment on doors over 14'5" in width. The illustration shows the channel which retains the wind-lock on the curtain and prevents the curtain from excessive deflection under wind pressure.



flat slat weather door

The Wilson Flat Slat Weather Door is without a doubt the best new development in the rolling steel door industry in many years. This door goes far beyond most weather specifications at a reasonable cost. The unique features of the Wilson Flat Slat Door are:

- A—Continuous endlocks and windlocks on ALL slats, which provides maximum protection against curtain blowouts.
- B—Special weather angle in the guides.
- C—Flat slats which prevents rain or wind penetration. Also they are particularly desirable from an appearance standpoint.

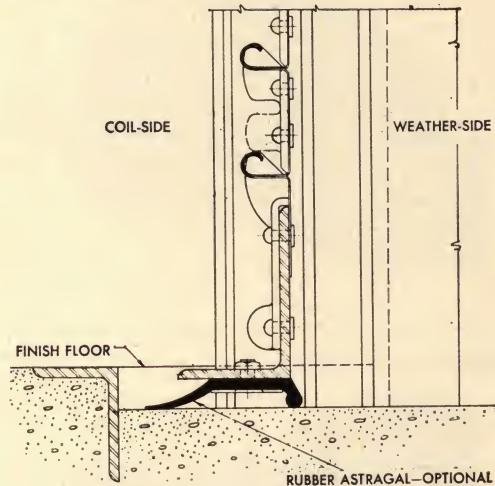
The response to the Wilson Weather Door has been one of unanimous approval. Architects throughout the country are now specifying the Wilson Weather Door because it provides maximum weather protection.



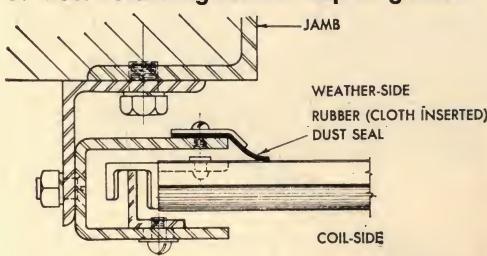
options

The following items are optional and can be supplied as extras where conditions require their use:

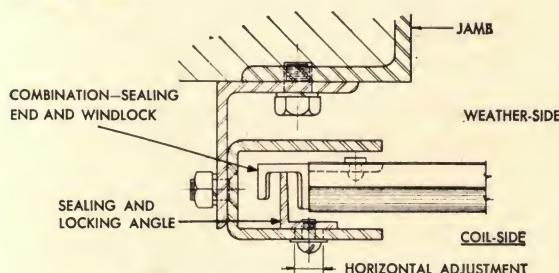
1. hood baffle plate
2. rubber astragal on bottom bar



3. dust-retarding rubber flap at guides



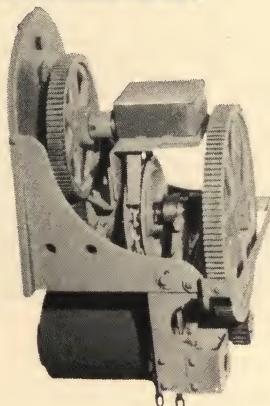
standard groove



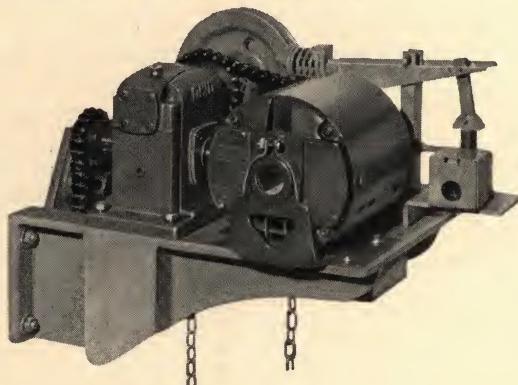
motor units

Three models of motor units are available. All use instantly reversible, ball bearing motors. They are controlled by a magnetic reversing starter with thermal overload relays and manufactured to NEMA standards, shoe type magnetic brake, geared limit switch integral with the motor operator, and a push button station marked "OPEN"—"CLOSE"—"STOP".

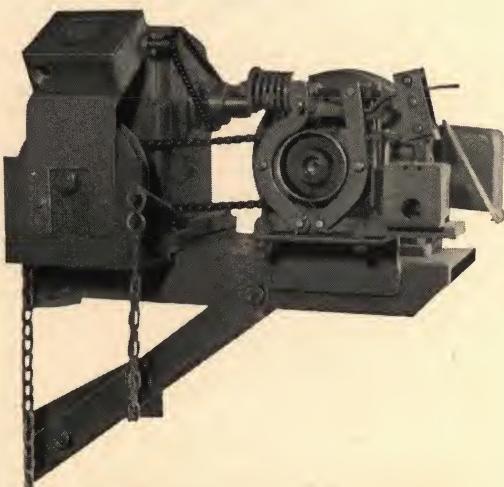
No. 7 small to medium doors



No. 5350 small to medium doors



No. 5400 large doors



All models feature emergency handchain operation which permits removal of the motor if necessary. Use of emergency operator does not affect the settings of the limit switch. Many optional features are available as well as various control arrangements. Please consult our Engineering Department for details.

This unit features a spur gear train for speed reduction. The standard mounting position is shown although it may be mounted in front of the coil when sideroom is limited.

curtain	maximum opening area*
22 gauge	510 sq. ft.
20 "	430 " "
18 "	320 " "

This unit features a worm and gear speed reducer running in an oil bath. Standard mounting position is shown, but this model may be mounted in front or on top of the coil where necessary.

curtain	maximum opening area*
22 gauge	510 sq. ft.
20 "	430 " "
18 "	320 " "

This unit uses integral horsepower motors and utilizes a worm and gear speed reducer running in an oil bath. The standard mounting is as shown, but in cases where sideroom is limited it may be mounted on top, in front, or below the coil.

curtain	maximum opening area*
20 gauge	1070 sq. ft.
18 "	820 " "

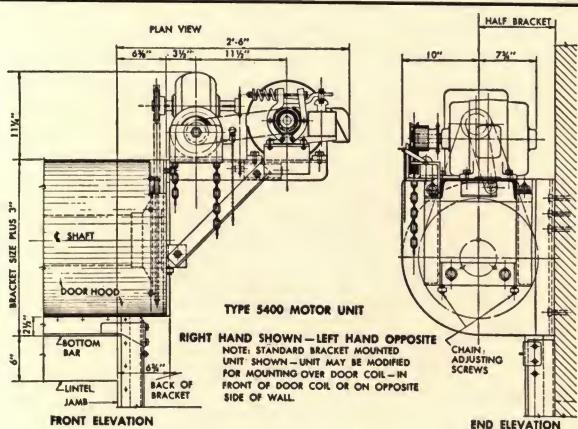
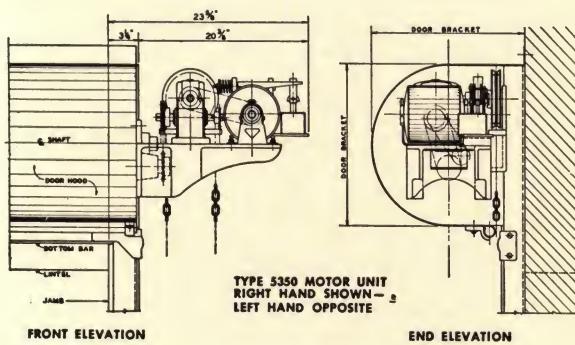
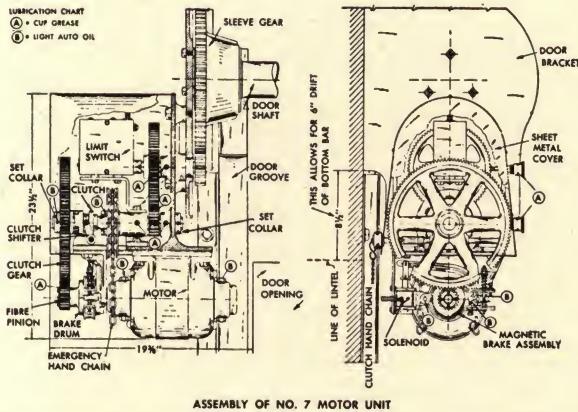
* for all Commercial rolling doors except the flat slat weather door.

COMMERCIAL non-labeled

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specifications

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Curtain—made up of slats of steel, hot-dip galvanized. Wilson slats have malleable iron end locks to prevent lateral movement and to provide a wearing surface on both sides. Bottom reinforced by a steel angle. Unless otherwise specified, slats of the following gauges are used:

For openings up to 14' wide—22 U. S. Standard
From 14' to 20'4" wide —20 U. S. Standard
Over 20'4" wide —18 U. S. Standard

Shafts—commercial steel pipe or tube of sufficient diameter to carry the load, each end fitted with cast iron collars with pre-lubricated ball bearings. Shaft journals are of malleable iron or cold-rolled steel.

Springs—helical type, inside of shaft, of sufficient strength to counterbalance weight of curtain at any point, with a factor of safety of 25% in excess of the actual weight of the curtain. A suitable spring adjustment device shall be furnished for use in adjusting the counter-balancing spring. On doors over 240 sq. ft., a self-sustaining worm and wheel adjustment device is furnished as standard.

Grooves—special one piece channel $\frac{3}{16}$ " thick, depth not less than $2\frac{1}{2}$ ". Doors over 14'5" fitted with Wilson Safety Grooves and Anchors, securely bolted to building with suitable bolts.

Brackets—Cast iron, enclosed type, with web and flanges of ample strength for securing to building. Steel plate brackets will be furnished where special conditions are imposed by weight, method of mounting, etc. Door types A1000 and A1008 use $\frac{3}{16}$ " steel plate, and type A1088 uses $\frac{1}{4}$ " steel plate. Brackets are fastened to structure by adequate means to suit structural design.

Gears—gray cast iron, machine moulded $\frac{3}{4}$ " pitch, 1" face, simple or compound depending on weight of curtain. Journals cold-rolled steel studs riveted into web of bracket. All parts effectively protected from weather and accessible for lubrication.

Hoods—No. 24 gauge standard galvanized steel sheets. Where width requires made in sections with reinforcing braces at joints. Flashed into building where exposed to weather.

Wicket Doors—can be furnished, if specified, at extra cost.

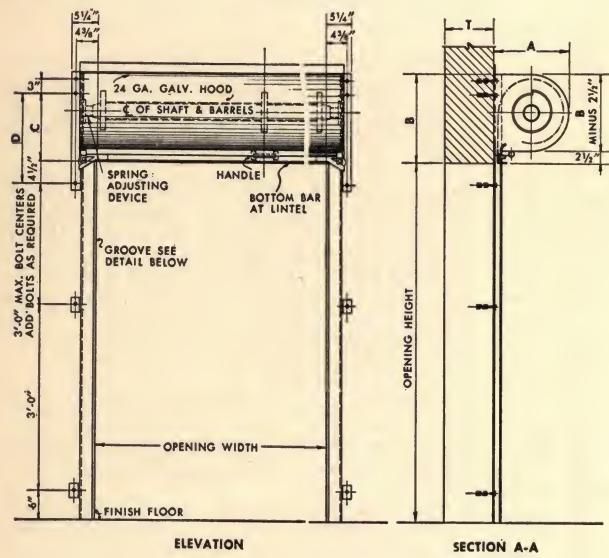
Safety Bottom Bar Switch—consisting of a contact switch installed on bottom bar of motor operated doors to stop and reverse operator upon contact with any object in opening can be furnished, if required, at additional cost.

Wilson Commercial Rolling doors are also available in Aluminum and Stainless Steel in various finishes

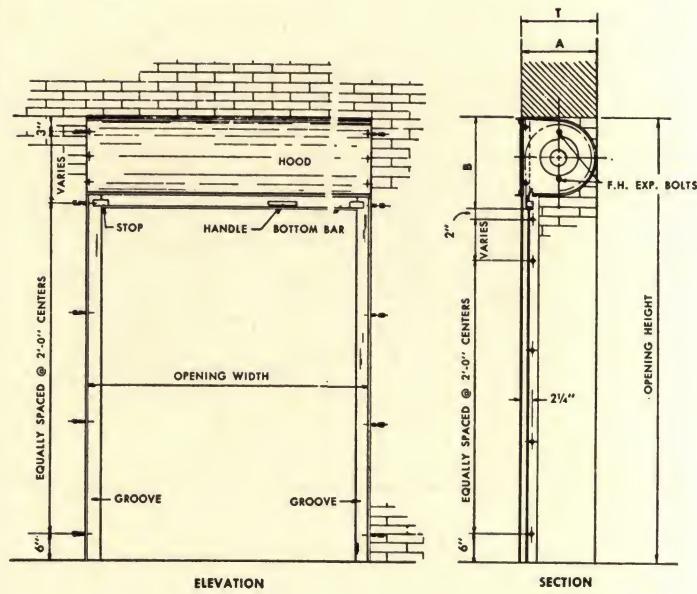
self-coiling

openings up to 80 sq. ft.

face mounted—model A1000



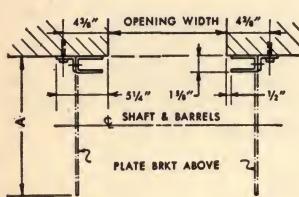
under lintel mounted—model 1002



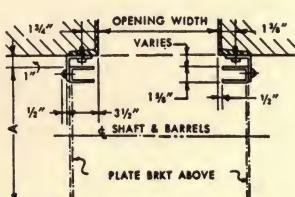
opening height up to	A	B	C	D	BBL size	bracket bolts
4'-9"	13"	15 1/2"	11 1/2"	16"	8"	3/8" dia.
7'-0"	14"	16 1/2"	12 1/2"	17"	8"	3/8" dia.
8'-9"	15"	17 1/2"	13 1/2"	18"	8"	3/8" dia.
10'-6"	16"	18 1/2"	14 1/2"	19"	8"	3/8" dia.

opening height up to	A	B
6'-1"	13"	16"
8'-6"	14"	17"
10'-4"	15"	18"
12'-3"	16"	19"

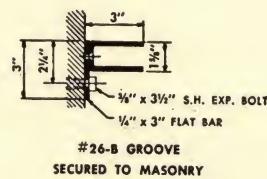
groove mountings and brackets



NO. 26A GROOVE MASONRY MOUNTING



NO. 26N GROOVE STEEL MOUNTING



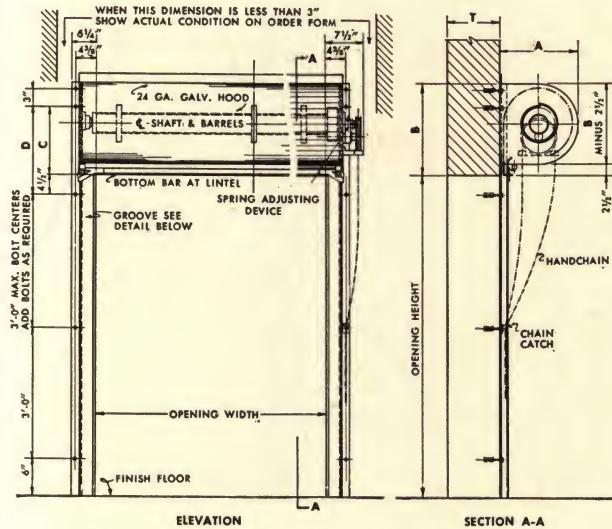
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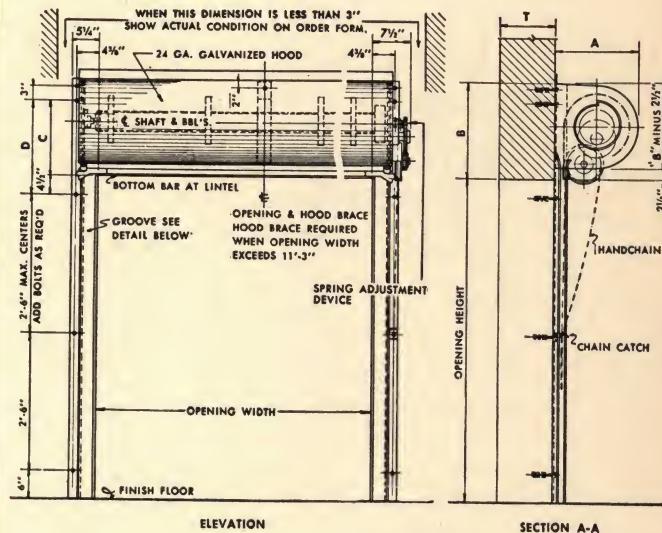
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chain geared

face mounted—model A1008
up to 120 sq. ft. only in area

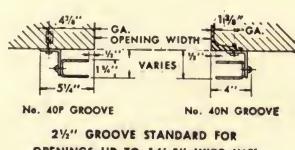


face mounted—model A1088
from 120 to 240 sq. ft. in area

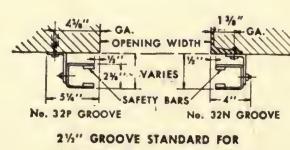


opening height up to	A	B	C	D	BBL size	bracket bolts
5'-6"	15"	18"	13 1/2"	18"	8"	3/8" dia.
8'-7"	16"	19"	14 1/2"	19"	8"	3/8" dia.
11'-0"	17"	20"	15 1/2"	20"	8"	3/8" dia.
12'-6"	18"	21"	16 1/2"	21"	8"	1/2" dia.

opening height up to	A	B	C	D	BBL size	bracket bolts	max. opening width
11'-0"	17"	20"	15 1/2"	20"	8"	1/2" dia.	17'-0"
12'-6"	18"	21"	16 1/2"	21"	8"	1/2" dia.	16'-0"
15'-0"	20"	23"	18 1/2"	23"	10"	1/2" dia.	15'-0"
16'-10"	22"	25"	20 1/2"	25"	12"	1/2" dia.	14'-0"



No. 40P GROOVE
2 1/2" GROOVE STANDARD FOR
OPENINGS UP TO 14'-5" WIDE INCL.

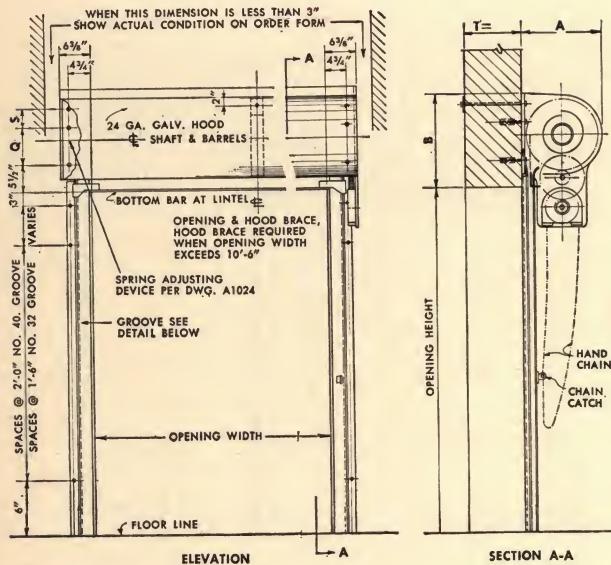


No. 32P GROOVE
2 1/2" GROOVE STANDARD FOR
OPENINGS OVER 14'-5" WIDE

chain geared

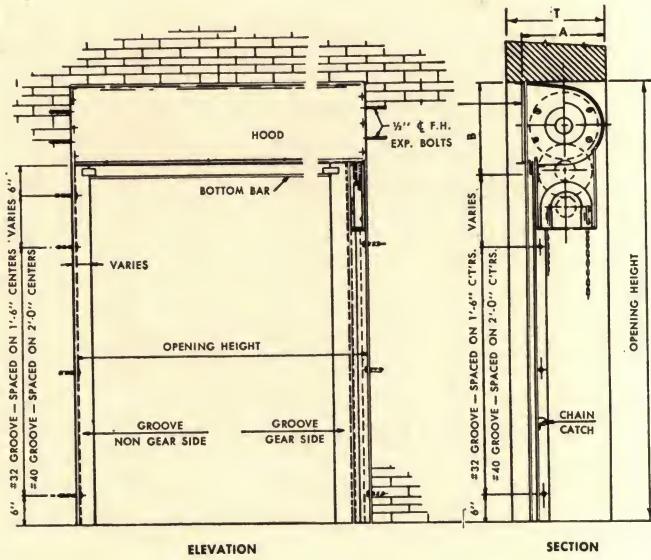
continued

face mounted—model 1005 over 240 sq. ft. in area



CURTAIN: B4 SLAT 18 & 20 U.S. STD. GA. GALVANIZED

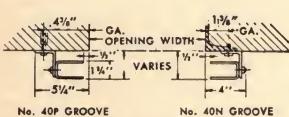
under lintel mounted—model 1006



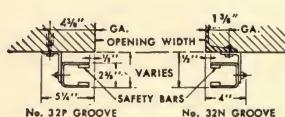
opening height up to	A	B	Q	S	BBL size	bracket bolts	max. opening width
20'-6"	23"	26"	13"	5"	12"	5/8" dia.	21'-0"
22'-6"	24"	27"	14"	5"	12"	5/8" dia.	20'-0"
30'-8"	28"	31"	17"	6"	15"	3/4" dia.	25'-0"

simple gear	compound gear						
opening height up to	A	B	BBL size	opening height up to	A	B	BBL size
5'-1"	14"	17"	8"	13'-3"	18"	21"	8"
7'-0"	15"	18"	8"	16'-11"	20"	23"	10"
10'-2"	16"	19"	8"	18'-11"	22"	25"	12"
12'-8"	17"	20"	8"	22'-8"	23"	26"	12"
				24'-3"	24"	27"	12"
				24'-11"	26"	29"	12"

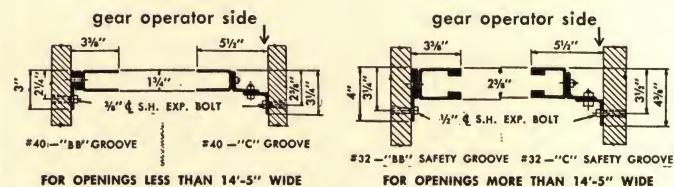
groove mountings



2 1/2" GROOVE STANDARD FOR
OPENINGS UP TO 14'-5" WIDE INCL.



2 1/2" GROOVE STANDARD FOR
OPENINGS OVER 14'-5" WIDE



NOTE: Type "BB" groove may be used at non-gear end if spring tension device is not desired. If spring tension is desired type "C" groove must be used at non-gear end. Type "C" groove must be used at gear-end at all times.

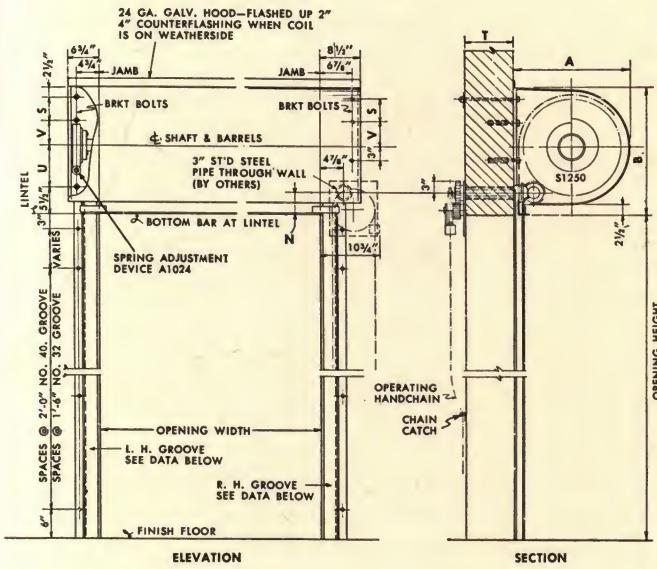
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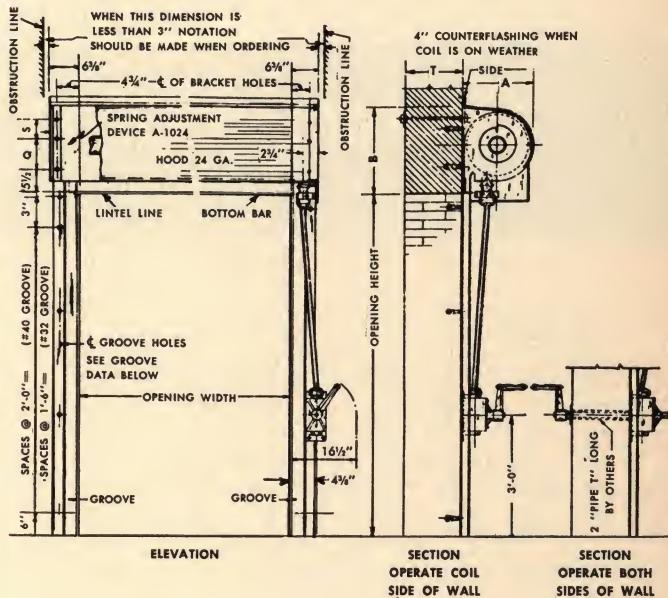
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thru-wall operation

chain operated—model 1009
available with chain opposite coil side only.

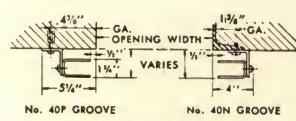


crank operated—model 1011
available with crank on either side or both sides of wall, depending on requirements.

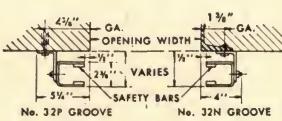


opening height up to	A	B	S	U	V	N	BBL size	max. opening width
8'-7"	16"	19"	3"	5"	3"	3 3/16"	8"	18'-0"
11'-0"	17"	20"	4"	5 1/2"	2 1/2"	4"	8"	17'-0"
12'-6"	18"	21"	4"	6"	3"	4"	8"	16'-0"
15'-0"	20"	23"	4"	7"	4"	3 1/16"	10"	23'-0"
16'-10"	22"	25"	5"	8"	4"	4 3/8"	12"	22'-0"
20'-6"	23"	26"	5"	8 1/2"	4 1/2"	5 3/16"	12"	21'-0"
22'-6"	24"	27"	5"	9"	5"	4 7/8"	12"	20'-0"

opening height up to	A	B	Q	S	max. opening width
11'-0"	17"	20"	8"	4"	17'-0"
12'-6"	18"	21"	8"	4"	16'-0"
15'-0"	20"	23"	10"	4"	23'-0"
16'-10"	22"	25"	12"	5"	22'-0"
20'-6"	23"	26"	12"	5"	21'-0"



2 1/2" GROOVE STANDARD FOR OPENINGS UP TO 14'-5" WIDE INCL.



2 1/2" GROOVE STANDARD FOR OPENINGS OVER 14'-5" WIDE



Underwriters' labeled

UNDERWRITER TYPE, made in steel only, is used for insurance reduction purposes and where fire hazards exist and fire protection is desired on interior and exterior openings. This type is restricted to a definite size and area, is made for fully labeled requirements, and has been tested and approved by Underwriters' Laboratories, Inc. Where required, are equipped with automatic device, closing at a temperature of 160 degrees by fusible link.

Doors can be raised without difficulty after closing automatically; the automatic device can be reset and new fusible link inserted without removing the hood or dismantling the door.

3 Hour (A)—Fire Wall doors.

1½ Hour (B)—Vertical Shaft doors,

¾ Hour (C)—Corridor and Room Partition doors.

1½ Hour (D)—Exterior Wall doors.

Special Underwriters' Doors

"Oversize" Certificate of Inspection— Fire doors exceeding 120 sq. ft. opening in area of inspection or 12'-0" in opening width or height when made in strict accordance with Underwriters' requirements, will be approved by the Underwriters but will carry an "Oversize" Certificate of Inspection in place of the standard label.

New York City "3 Hour" Label—A Special Fire Door carrying a "3 Hour label" as required by the City of New York conforms generally to the design and construction of "A" Door except size limit of 112½ sq. ft. cannot be exceeded.

features

These doors have been tested and approved by the Underwriters' Laboratories, and are made in accordance with their regulations evolved as a result of these tests.

The special features to which attention is directed are baffle plates in the hood and "fire-stops" on the edges of the slats, which prevent smoke and flame from passing through the opening.

Where required, the doors are equipped with automatic device, which at a temperature of approximately 160° F. causes the doors to close by fusing of one of two links, located at the head or side of the opening, and near the ceiling. On fusing of the link, an auxiliary spring drives the curtain down where it closes easily but firmly on the sill and can be raised without difficulty for emergency exit.

The automatic device can easily be reset and a new link inserted without removing the hood or dismantling the door. Escapement type governor to control the speed of the curtain is furnished as standard equipment.

Bottom bars and grooves are provided with slotted holes and fusible washers allowing for expansion due to heat and preventing buckling of doors or grooves. Bottom of groove is placed $\frac{3}{4}$ " above sill for the same purpose.

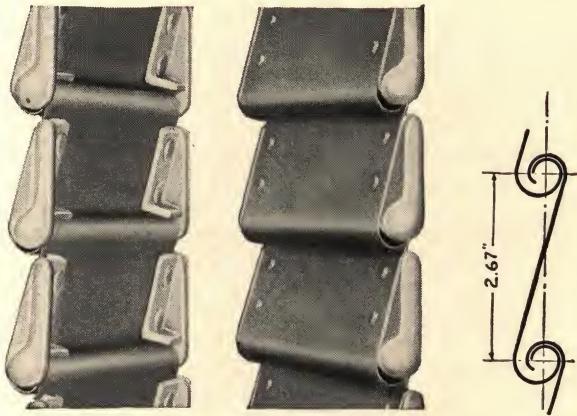
The Underwriters' requirements are that brackets and grooves be either fastened to wall by through bolts or to iron inserts furnished and installed by others. This is subject to modification by local board ruling. Brackets and grooves may be recessed or not, according to requirements, that is to say, clear height and width of opening may be obtained by providing proper recesses.

The doors may be manually opened by handle on the bottom bar or mechanically by crank gearing, depending upon the type and application.

If any door is too large to bear the Underwriters' label, the entire matter is submitted to their inspector and a Certificate of Inspection is issued.

A special fire door, carrying a "3 Hour" label as required by the City of New York conforms generally to the design and construction of the Wilson "A" door except special size limit of 112½ sq. ft. opening area cannot be exceeded.

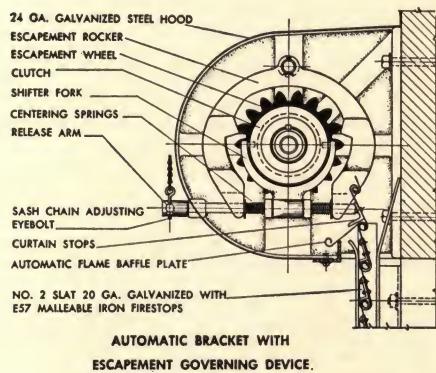
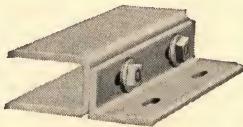
no. 2 slat



These slats, made of 20 U. S. Standard gauge, are used on Wilson Underwriter labeled doors for vertical shaft, fire wall, corridor and room openings. Slats have shields so shaped as to prevent smoke and flame from passing through grooves.

special Underwriters' channel

Provided with slots to allow for expansion encountered in the case of fire.



A Wilson Underwriters' Labeled Door, showing baffle plate in hood and fire-stops on edges of slats, preventing smoke and flame from passing through the opening.

specifications

A—Curtain: No. 2 interlocking galvanized slat with malleable iron fire stops applied to every slat to provide continuous end baffles. Curtain is equipped with baffle plate to completely seal off hood and groove openings when curtain is closed.

B—Bottom Bar: Structural steel angle to provide stiffness at bottom of curtain.

C—Grooves: One-piece rolled steel channel section with structural steel angle for wall attachment.

D—Hood: Galvanized sheet steel providing complete enclosure of curtain coil. Braced at proper intervals as required by width of door.

E—Counterbalance Spring: Helical torsion high strength steel spring enclosed in tubular shaft.

F—Automatic Closing Mechanism: The automatic closing mechanism is an integral unit and completely separate from the counterbalance and operating mechanism. Upon parting of the fusible link, the curtain is closed by an auxiliary spring while the speed of travel is controlled by an escapement type governor. The curtain may be raised for emergency exit and then again closes automatically. Recharging the auxiliary spring and resetting the release are easily accomplished without removing the hood, thus permitting frequent tests.

G—Shaft: Steel pipe adequately proportioned to carry curtain weight and enclose counterbalance spring.

H—Barrels: Two-piece pivoted construction for easy removal from shaft without dismantling shaft from brackets.

I—Brackets: Heavily proportioned of cast iron shaped to contain coil and protect operating gears.

J—Gears: Machine molded teeth, gray iron certified castings enclosed and protected by hood and brackets.

K—Operating Crank: Attached to gear box to provide proper ratio and to permit operation from one or both sides of wall.

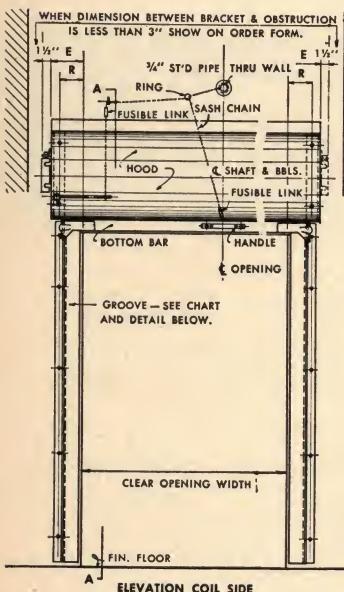
face mounted

**Opening not to exceed 120 sq. ft.
Width or height not to exceed 12 ft.**

3 hour (A)—model 1710

manual

Manual (push-up) operation is limited to 80 sq. ft. of opening area, width not exceeding 10'-4" and height not exceeding 11'-4". Above this size, crank geared operation is recommended.

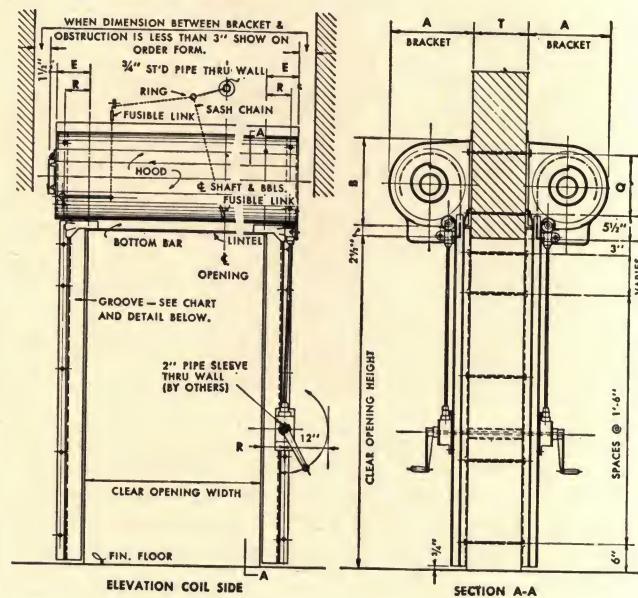


opening height up to	A	B	Q	BBL size	bracket bolts
6'-3"	15"	15 1/2"	10"	8"	1/2" dia.
8'-0"	16"	16 1/2"	11"	8"	1/2" dia.
8'-6"	17"	17 1/2"	12"	10"	1/2" dia.
9'-0"	18"	18 1/2"	13"	10"	1/2" dia.
10'-6"	19"	19 1/2"	14"	10"	1/2" dia.
11'-4"	20"	20 1/2"	15"	10"	5/8" dia.

3 hour (A)—model 1715

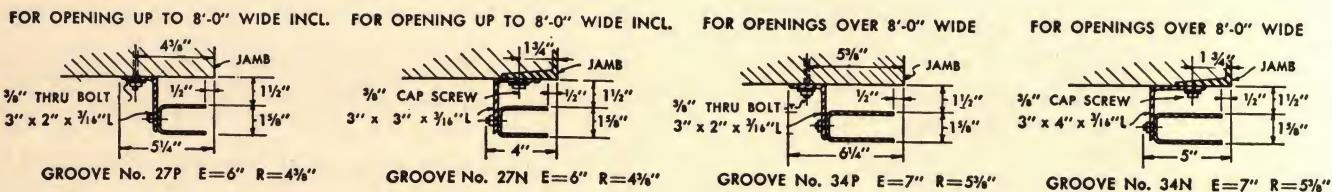
crank

For openings larger than 120 sq. ft. or over 12'-0" in width or height an Oversize Certificate of Inspection is furnished up to widths or heights not exceeding 24 ft. Consult our Engineering Dept. for clearance requirements.



opening height up to	A	B	Q	BBL size	bracket bolts
6'-3"	15"	15 1/2"	10"	8"	1/2" dia.
8'-0"	16"	16 1/2"	11"	8"	1/2" dia.
8'-6"	17"	17 1/2"	12"	10"	1/2" dia.
9'-0"	18"	18 1/2"	13"	10"	1/2" dia.
10'-6"	19"	19 1/2"	14"	10"	1/2" dia.
12'-6"	20"	20 1/2"	15"	10"	5/8" dia.
15'-0"	21"	21 1/2"	16"	10"	5/8" dia.
19'-6"	23"	23 1/2"	18"	12"	5/8" dia.

groove mountings

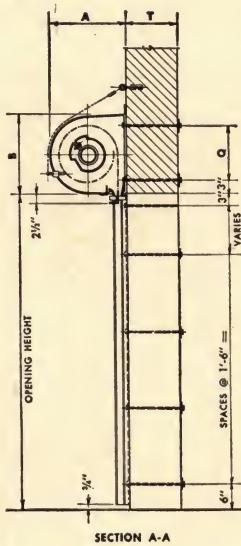
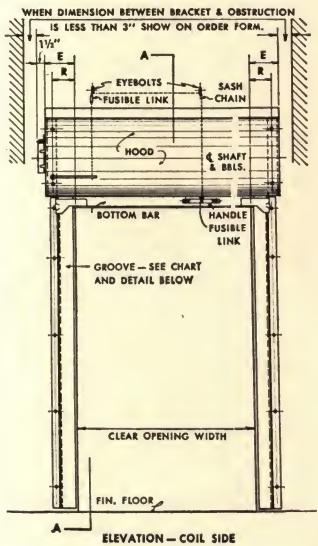


UNDERWRITERS' labeled

b

1 1/2 hour (B); 3/4 hour (C)—model 1704 manual

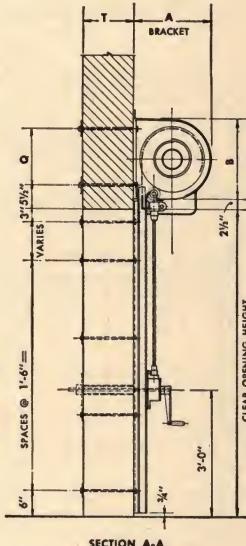
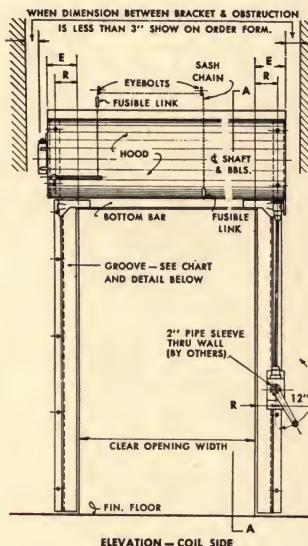
Manual (push-up) operation is limited to 80 sq ft of opening area, width not exceeding 10'-4" and height not exceeding 11'-4". Above this size, crank geared operation is recommended.



opening height up to	A	B	Q	BBL size	bracket bolts
6'-3"	15"	15 1/2"	10"	8"	1/2" dia.
8'-0"	16"	16 1/2"	11"	8"	1/2" dia.
8'-6"	17"	17 1/2"	12"	10"	1/2" dia.
9'-0"	18"	18 1/2"	13"	10"	1/2" dia.
10'-6"	19"	19 1/2"	14"	10"	1/2" dia.
11'-4"	20"	20 1/2"	15"	10"	5/8" dia.

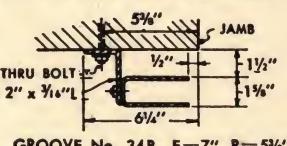
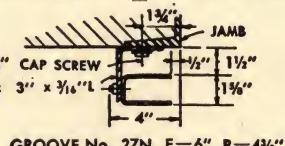
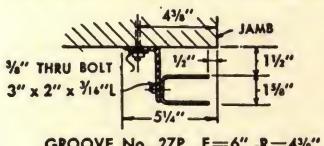
1 1/2 hour (B); 3/4 hour (C)—model 1707 crank

For openings larger than 120 sq. ft. or over 12'-0" in width or height an Oversize Certificate of Inspection is furnished up to widths or heights not exceeding 24 ft. Consult our Engineering Dept. for clearance requirements.

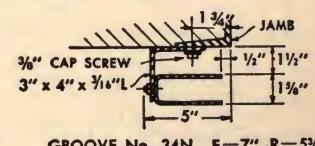


opening height up to	A	B	Q	BBL size	bracket bolts
6'-3"	15"	15 1/2"	10"	8"	1/2" dia.
8'-0"	16"	16 1/2"	11"	8"	1/2" dia.
8'-6"	17"	17 1/2"	12"	10"	1/2" dia.
9'-0"	18"	18 1/2"	13"	10"	1/2" dia.
10'-6"	19"	19 1/2"	14"	10"	1/2" dia.
12'-6"	20"	20 1/2"	15"	10"	5/8" dia.
15'-0"	21"	21 1/2"	16"	10"	5/8" dia.

FOR OPENING UP TO 8'-0" WIDE INCL. FOR OPENING UP TO 8'-0" WIDE INCL. FOR OPENINGS OVER 8'-0" WIDE



FOR OPENINGS OVER 8'-0" WIDE

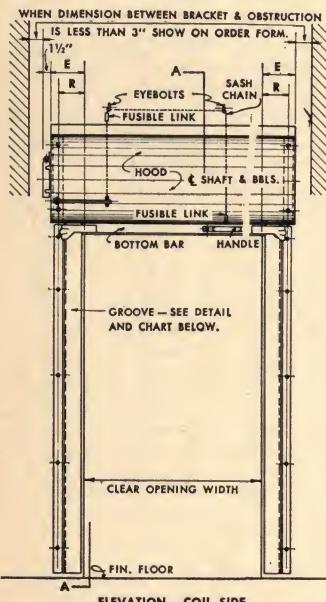


face mounted

Opening not to exceed 120 sq. ft.
continued Width or height not to exceed 12 ft.

1 1/2 hour (D)—model 1721 manual

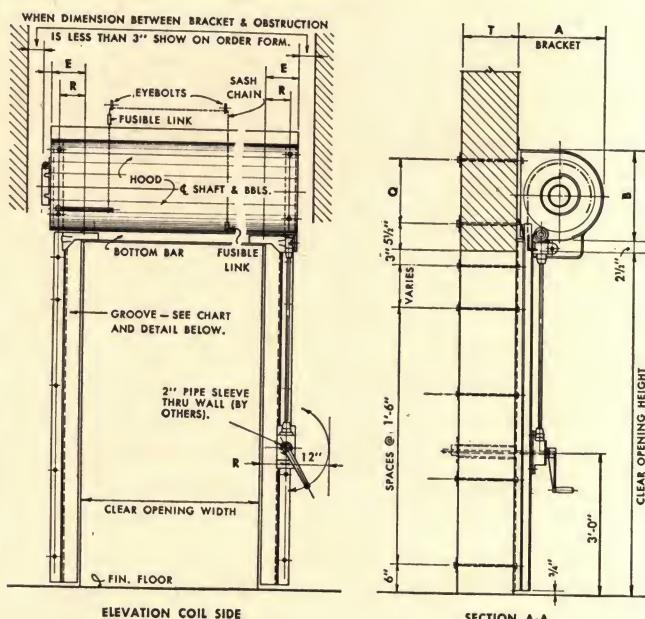
Manual (push-up) operation is limited to 80 sq ft of opening area, width not exceeding 10'-4" and height not exceeding 11'-4". Above this size, crank geared operation is recommended.



opening height up to	A	B	Q	BBL size	bracket bolts
3'-4"	14"	14 1/2"	9"	8"	1/2" dia.
4'-0"	15"	15 1/2"	10"	8"	1/2" dia.
6'-6"	16"	16 1/2"	11"	8"	1/2" dia.
7'-6"	17"	17 1/2"	12"	8"	1/2" dia.
8'-0"	18"	18 1/2"	13"	8"	1/2" dia.
8'-9"	19"	19 1/2"	14"	10"	1/2" dia.
11'-4"	20"	20 1/2"	15"	10"	5/8" dia.

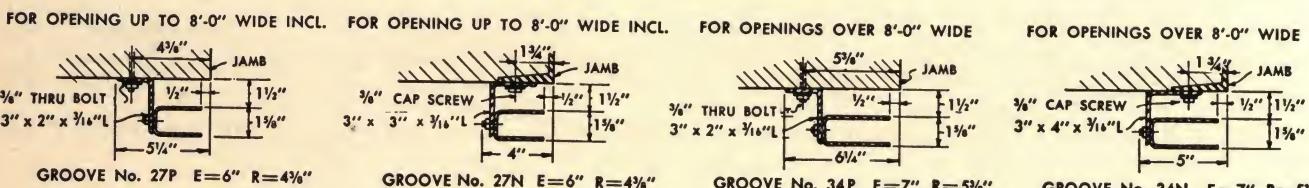
1 1/2 hour (D)—model 1727 crank

For openings larger than 120 sq ft or over 12'-0" in width or height an Oversize Certificate of Inspection is furnished up to widths or heights not exceeding 24 ft. Consult our Engineering Dept. for clearance requirements.



opening height up to	A	B	Q	BBL size	bracket bolts
6'-6"	16"	16 1/2"	11"	8"	1/2" dia.
7'-6"	17"	17 1/2"	12"	8"	1/2" dia.
8'-0"	18"	18 1/2"	13"	8"	1/2" dia.
8'-9"	19"	19 1/2"	14"	10"	1/2" dia.
12'-0"	20"	20 1/2"	15"	10"	5/8" dia.
13'-6"	22"	22 1/2"	17"	12"	5/8" dia.
16'-0"	23"	23 1/2"	18"	12"	5/8" dia.

groove mountings



UNDERWRITERS' labeled

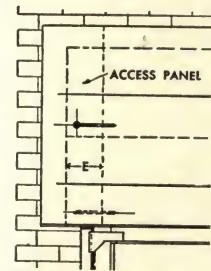
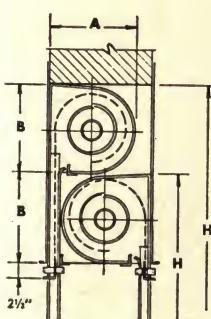
b

16g
WiL

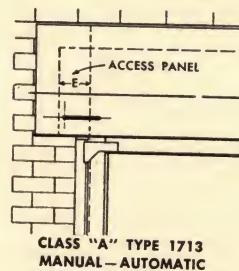
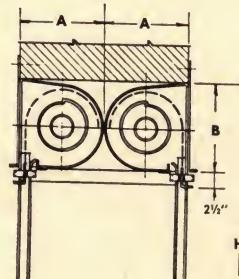
under lintel mounted*

manual operation

3 hour (A)—model 1711, vertical
model 1713, horizontal



CLASS "A" TYPE 1711
MANUAL—AUTOMATIC
VERTICAL MOUNTING



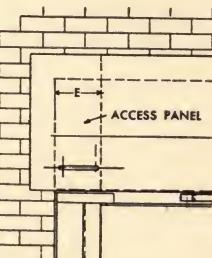
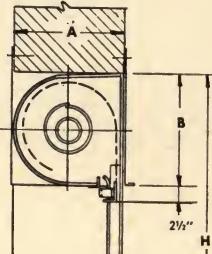
CLASS "A" TYPE 1713
MANUAL—AUTOMATIC
HORIZONTAL MOUNTING

opening height up to	A	B	
6'-0"	14"	14 1/2"	
7'-9"	15"	15 1/2"	
9'-6"	16"	16 1/2"	
10'-2"	17"	17 1/2"	
11'-4"	19"	19 1/2"	
width up to	C	D	E
8'-0"	2"	5 1/4"	8"
10'-4"	2"	6 1/4"	9"

1 1/2 hour (B)

3/4 hour (C)
Model 1703—
non-automatic

Model 1706—
automatic



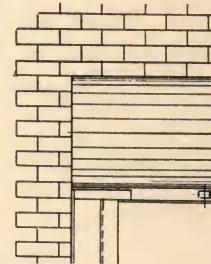
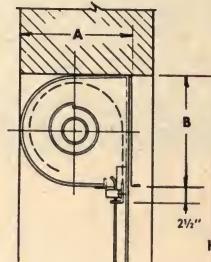
CLASS B & C
TYPE 1703 MANUAL NON-AUTOMATIC
TYPE 1706 MANUAL AUTOMATIC

opening height up to	A	B
6'-0"	14"	14 3/4"
7'-9"	15"	15 3/4"
9'-6"	16"	16 3/4"
10'-2"	17"	17 3/4"
11'-4"	19"	19 3/4"
width up to	D	E
8'-0"	5 1/2"	7 1/2"
10'-4"	6 1/2"	8 1/2"

1 1/2 hour (D)

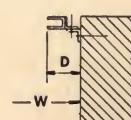
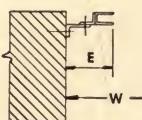
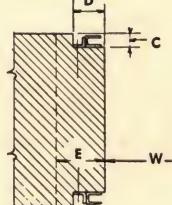
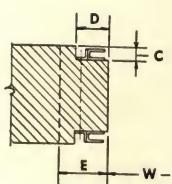
Model 1720—
non-automatic

Model 1723—
automatic



CLASS "D"
TYPE 1720 MANUAL NON-AUTOMATIC
TYPE 1723 MANUAL AUTOMATIC

opening height up to	A	B
8'-0"	16"	16 1/2"
9'-2"	17"	17 1/2"
10'-6"	19"	19 1/2"
11'-4"	20"	20 1/2"
width up to	D	E
8'-0"	5 1/2"	7 1/2"
10'-4"	6 1/2"	8 1/2"



* Consultation with our Engineering Department is recommended for required opening clearances



Grilles and Shutters

Wilson Diamond Rolling Grille offers a practical decorative solution to the problem of openings where it is desirable to admit light and air, yet have the protection necessary against petty theft or intrusion.

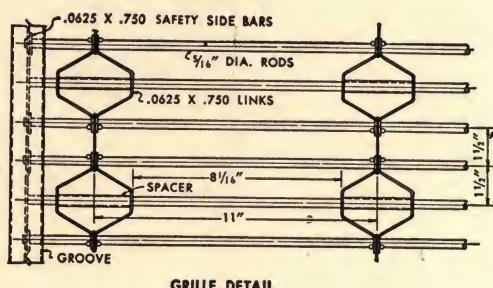
wide application of uses

Gateways	Produce Markets
Transformer Rooms	Elevator Shafts
Corridor Openings	School Building Corridor segregation
Vaults	
Storage Rooms	Industrial Buildings

It embodies the same principles and construction as used in Wilson Rolling Steel Doors. The curtain coils on a shaft, enclosing a helical counter-balancing spring, and travels in steel guide channels in which the ends of the curtain are retained. The coil is covered by a sheet metal hood.

features

Wilson's Patented Grille is constructed of $\frac{5}{16}$ " rods, $1\frac{1}{2}$ " on centers connected with diamond-shaped links. No hand can pass through this design. The Diamond Grille is sturdy in construction. Recently a 44' wide Diamond Grille was installed in Birmingham Ala.



Operation can be by manual push-up, chain, crank or motor. Grilles may be placed on the face of the wall, to coil above the lintel, or between jambs and below the lintel, or on the outside face of the wall, with operation from either side. An important feature of the Wilson Diamond Grille is the fact that the grooves fasten at the head and floor only. This enables between jambs installations in corridors to be made without cutting or marring walls.

Standard locking device on push-up grilles consists of a slide bolt and hasp, while chain-gearred grilles have a chain catch. A cremone type cylinder lock, operable from either side of the curtain, is available at an extra charge. Wilson Diamond Grilles are furnished in galvanized steel as standard. However, for an additional charge, it may be furnished in aluminum or stainless steel in a variety of finishes.

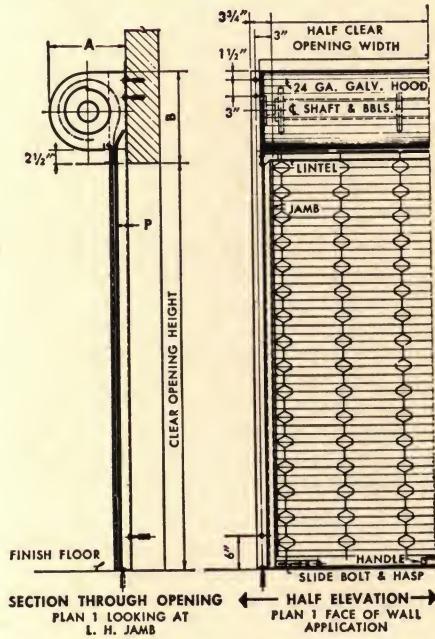
Heavy Duty Industrial Grille

Also available at additional cost is Wilson's heavy duty industrial grille where conditions necessitate the use of particularly heavy construction.

diamond grille model 1027

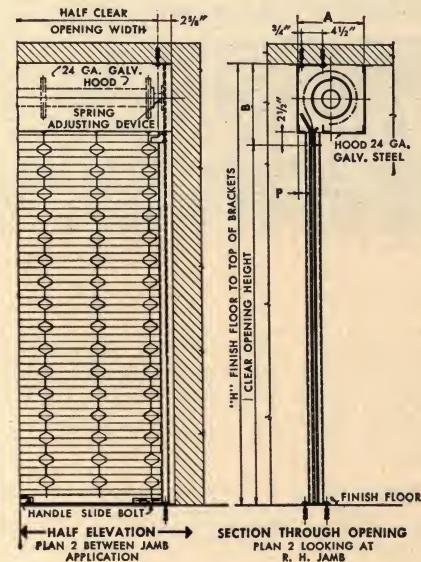
16g
WiL

face mounted



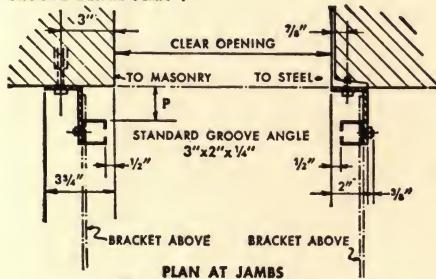
opening height	A	B	P
4'-7"	14"	16 1/2"	1 3/4"
7'-0"	15"	17 1/2"	1 3/4"
8'-0"	16"	18 1/2"	1 3/4"
10'-0"	17"	19 1/2"	2"
12'-0"	18"	20 1/2"	2"

under lintel mounted

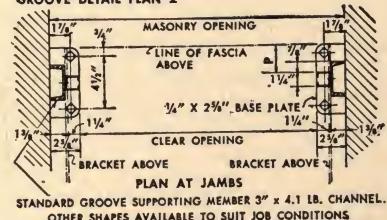


dim. H	A	B	P	T
6'-0"	14"	16 1/2"	2 3/8"	3"
8'-6"	15"	17 1/2"	2 3/8"	3"
9'-6"	16"	18 1/2"	2 3/8"	3"
12'-3"	17"	19 1/2"	2 3/8"	3"
13'-8"	18"	20 1/2"	2 3/4"	3 3/8"

GROOVE DETAIL PLAN 1



GROOVE DETAIL PLAN 2





Midget Slat Closures

For opening and closing relatively small apertures other than portals there is a far better, more suitable way than using doors, windows, movable walls or partitions.

As far back as 1930 the problem of finding the solution for opening and closing relatively small openings was definitely recognized. The J. G. Wilson Corp. pioneered the design and construction of the first lightweight closures in both steel and aluminum—MIDGET SLAT ROLLING CLOSURES—that have long since become the acknowledged standard for this type of equipment.

Since then many thousands of WILSON MIDGET SLAT CLOSURES have been specified in new buildings and for installation in existing structures. You will find Midget Slat Closures in use in concession booths, across the fronts of newsstands, soda fountains, lunch counters; in school, factory and institution cafeterias. They are installed in openings between dining rooms and kitchens and between other rooms.

They serve as store fronts; are used on various types of counters in railroad, airline, bus and ferry terminals and on ocean liners. They function for refreshment, luncheon, candy and soda counters in theatre and hotel lobbies, major league ball parks and stadiums. You will find them in use as closures for kitchenettes, closets and storage spaces.

If crank or motor operation is desired consult Engineering Department for detailed information.

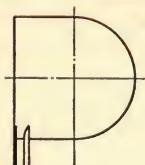
features

The Wilson Midget Slat Rolling Closure is recommended for use on smaller-sized openings other than portals. It is strong, durable, light, easy to clean, and requires a minimum of space. Operates smoothly by push-up method. Wide openings can be closed by several Midget Slat curtains divided by light removable pilasters. Standard curtains are of interlocking flat slats of 24 gauge galvanized steel that can be painted in the field to match any trim. Hoods or fascias are furnished as standard construction.

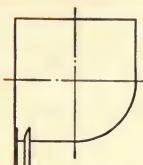
Slats of aluminum, aluminized steel, stainless steel or 22 gauge galvanized steel available on special order. Extruded aluminum slats available in a variety of finishes. Special vinyl sealing astragals on bottom bars are furnished as an extra when desired. For extra protection and strength special safety endlocks may be installed on wider openings or where installations are open to the weather. Lined grooves are also available if specified.

A more detailed pamphlet describing the Wilson Midget Slat Closure and various methods of installation is available upon request.

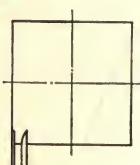
bracket types



TYPE "A"



TYPE "B"

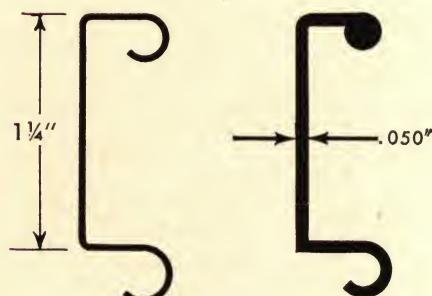


TYPE "C"

TYPE "A" STANDARD ON PLAN 1 APPLICATIONS

TYPE "B" STANDARD ON PLAN 2 APPLICATIONS

TYPE "C" FURNISHED ONLY WHEN SPECIFIED



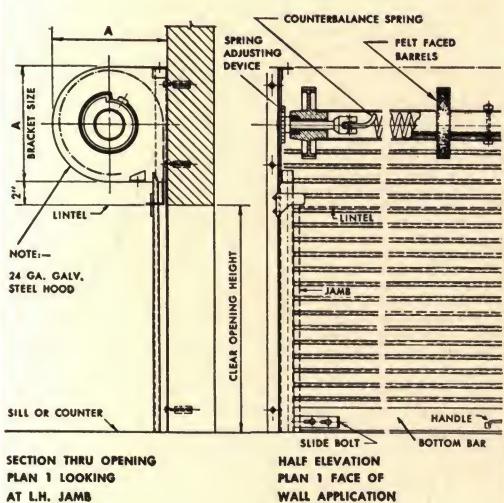
ROLLED SLAT FULL SIZE	EXTRUDED SLAT FULL SIZE
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MIDGET SLAT CLOSURES

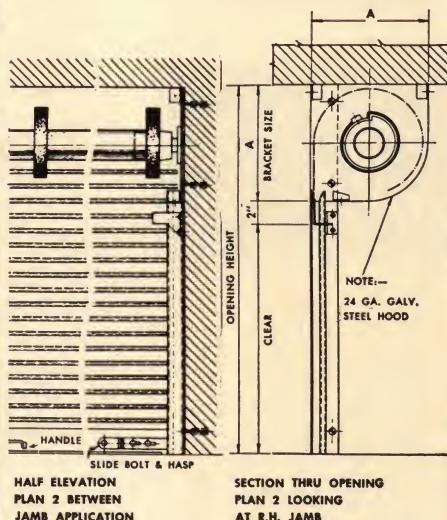
d

details

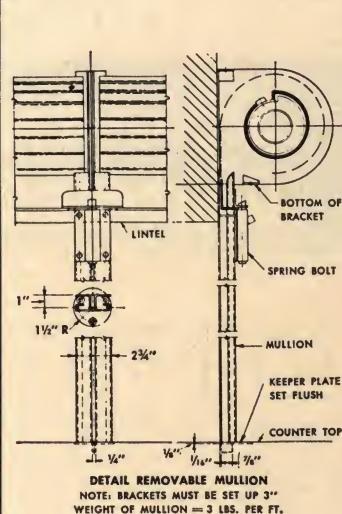
face mounted



under lintel mounted



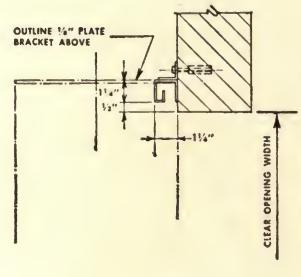
mullion detail



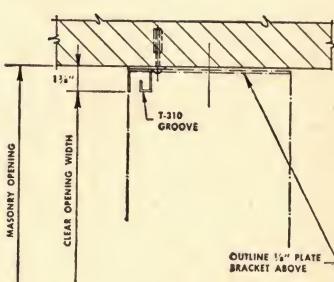
opening height	maximum opening width	bracket size "A"
1'-0"	16'-0"	9"
2'-0"	16'-0"	9"
3'-0"	16'-0"	9"
4'-0"	16'-0"	9"
5'-0"	14'-0"	10"
6'-0"	12'-0"	10"
7'-0"	10'-0"	11"
8'-0"	9'-0"	11"

Note: For openings exceeding these sizes consult Engineering Department

groove plan 1



groove plan 2



SECTION THRU JAMB

SECTION THRU JAMB



wood



steel

Sectionfold Overhead Doors

Wilson Sectionfold Overhead Doors meet the demand for the best and latest developments in closures. They are convenient, durable, simple and dependable. Having few parts and devoid of exposed springs, cables and chains, they present a clean-cut and trim appearance, inside as well as out. They can be easily adapted to many kinds of residential, institutional, commercial and industrial purposes.

Swinging doors with their tendency to sag, to be blocked by snow and ice, to blow shut just as a car is about to pass through, have hidden costs in time required to operate, repair and maintain—costs that are considerable in most cases.

Suspension on Preformed Aircraft cables and the exclusive Wilson drum construction permits their use on doors up to 22 feet high. When closed, Sectionfold doors occupy a minimum of floor space. When raised, they are overhead and out of the way, giving full width and height to the opening. Wicket doors can be furnished, if specified, at extra cost. Where headroom is available and it is desirable to locate the horizontal tracks a greater distance above the lintel line than the normal track construction, vertical lift tracks and shafts can be furnished.

types

wood

Wilson Sectionfold doors of wood can be used for public or private garages, service stations, factories, warehouses and other commercial buildings. They can be operated manually, by chain gear, or motor. Each helical oil tempered steel counterbalance spring is made after the weight of the door is known. This assures perfect balance and adjustment can be made through a single adjusting wheel.

steel

Wilson has recently introduced a new steel overhead door to the industry, which represents a substantial advance in the field. The new construction provides both trouble-free operation and durability. It consists of a modern flush exterior surface and finished interior appearance.

The Wilson steel overhead door is specified for commercial and industrial applications.

SPECIAL WILSON SAFETY FEATURES

Wilson strongly recommends the use of 3" track and safety catches on vertical and Hi-Lift Doors where an appreciable amount of the door weight is on the lifting cables when the door is in the open position.

SECTION FOLD OVERHEAD DOORS

f

operation

push-up

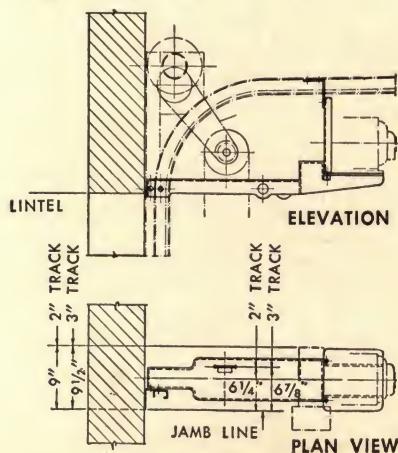
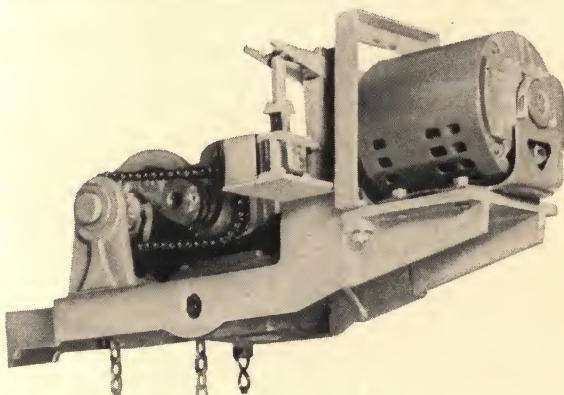
Recommended on all doors up to 12 ft in. height where the area is not over 144 sq. ft. and the thickness of the door is not over 1 $\frac{3}{4}$ in. (Note: Where heavy glass is used or the door is heavier than standard wood, chain gear operation is recommended.

chain gear

Recommended on all doors over the sizes listed under push-up. Lifted by Preformed Aircraft cables; all gears and cut steel pinion equipped with anti-friction bearings for smooth and easy operation. All load bearing shafts revolve on pre-greased ball bearings.

Type 5300 motor unit

Recommended where a door is opened and closed at frequent intervals during the day. Unit is composed of a motor, worm and gear reducer running in oil bath, magnetic reversing starter, solenoid brake, geared limit switch and control station. All electrical equipment is made by the foremost electrical manufacturers. Features include emergency hand chain and a special built-in friction clutch.



specifications

wood

Sections: Stiles and rails—1 $\frac{3}{4}$ in. thick; kiln-dried clear fir, mortised, tenoned and steel doweled. Open for glass as required.

Panels: $\frac{1}{4}$ in. exterior grade Masonite DORLUX.

Reinforcing: All doors over 12 ft 2 in. to 14 ft 8 in. wide are fitted with single 16-gauge galvanized reinforcing; doors over 14 ft 8 in. to 18 ft 2 in. inclusive, double 16-gauge galvanized reinforcing; and doors over 18 ft 2 in. special galvanized built-up truss reinforcing. The purpose of the special built-up truss is to lend needed strength to the most vulnerable part of the door and prevent deflection of the door sections due to the entire weight being carried from the lower corners of the door. Center tracks are unnecessary with Wilson reinforcing, since it has been designed to withstand normal wind loads when doors are down without deflection and this load is considerably more than load involved when door is in raised position.

Tracks: Hot rolled steel, 2-in. track 13-gauge and 3-in. track 11-gauge. All tracks painted. Vertical tracks are attached to continuous back angles or clip angles as applicable.

Hardware: All door fittings are of pressed steel, galvanized to prevent rusting. All rollers and sheaves are ball bearing with solid steel, case-hardened, outer rims. Side lock with cylinder and two keys that may be operated from either side of the door, locking the door to the track, will be furnished unless otherwise specified, on push-up doors and chain catch suitable for padlocking furnished on chain operated doors.

Weathering device: Not standard, but will be furnished without extra charge when specified.

Counterbalanced: All doors are counterbalanced by means of helical oil-tempered springs, enclosed in steel tubing or pipe shafts revolving on ball bearings and mounted parallel with the opening. An adjusting device for applying the proper amount of tension is furnished on all doors.

steel

Sections and Reinforcing: Sections are constructed of galvanized sheets formed into channel shapes with 2 inch flanges. Each flange is reinforced with spot welded box-type vertical members at each end and at intermediate locations as required to form a rigid unit. End box-type members carry roller hinges. Intermediate continuous hinges are spot welded to each section to form a tight weather seal and to provide horizontal reinforcing to withstand wind pressures of 30 pounds per square foot.

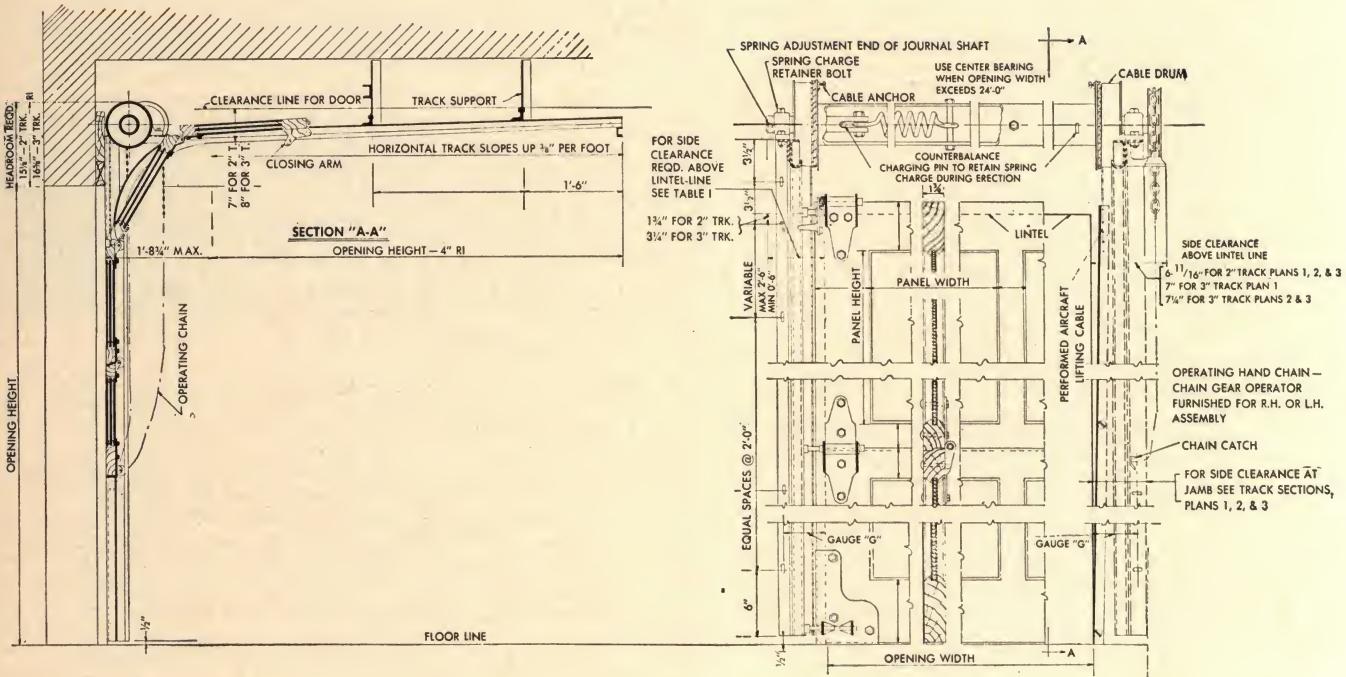
Standard Sections are constructed of 20 ga. (US Std) sheets. Heavier material will be used as required at extra cost.

Standard Sections are 20 inches or 24 inches high as required by opening height.

DETAILS

wood

chain geared operation

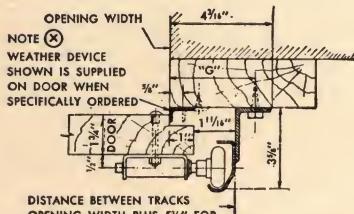


schedule of door sections and paneling

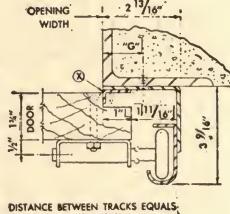
opening widths	panels	opening heights	sections
up to 6'-0"	2	up to 8'-6"	4
6'-0" to 12'-0"	4	8'-6" to 10'-6"	5
12'-0" to 16'-0"	5	10'-6" to 12'-6"	6
16'-0" to 20'-0"	6	12'-6" to 14'-6"	7
20'-0" to 24'-0"	7	14'-6" to 16'-6"	8
24'-0" to 27'-0"	8	16'-6" to 18'-6"	9
27'-0" to 30'-0"	9	18'-6" to 20'-6"	10

track data

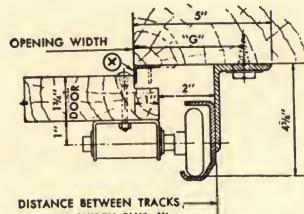
application	2" track		2" track	
	"G"	bolt	"G"	bolt
plan 1	3½"	¾" lag bolt	4⅛"	½" lag bolt
plan 2	3⅝"	¾" S.H. exp bolt	4⅝"	¾" S.H. exp bolt
plan 3	1⅛"	⅜" F.H.M.S.	1½"	⅜" F.H.M.S.



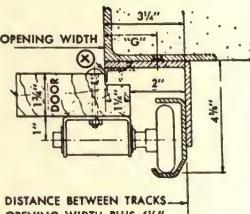
**SECTION THROUGH JAMB
2" TRACK—PLAN-1**



**SECTION THROUGH JAMB
2" TRACK - PLAN 3**



**SECTION THROUGH JAMB
3" TRACK - PLAN-1**



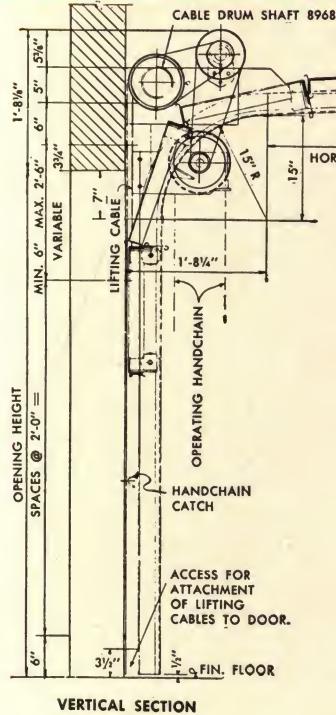
**SECTION THROUGH JAMB
3" TRACK - PLAN-3**

SECTIONFOLD OVERHEAD DOORS

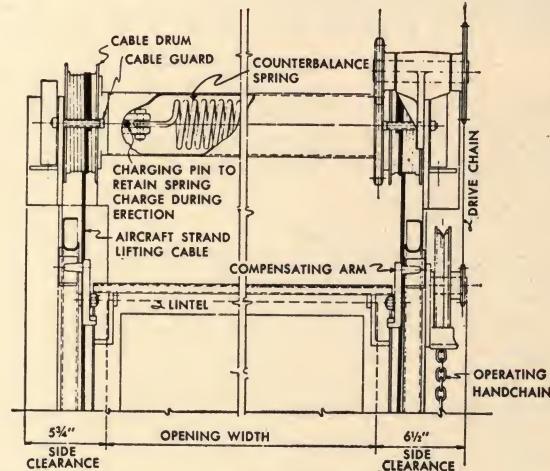


16g
WiL

steel



VERTICAL SECTION



ELEVATION OF SHAFT MECHANISM
CHAIN GEAR OPERATION

MULTIPLE CHAIN GEAR OPERATION

Standard on doors for openings exceeding the following:

All openings over 16'0" high

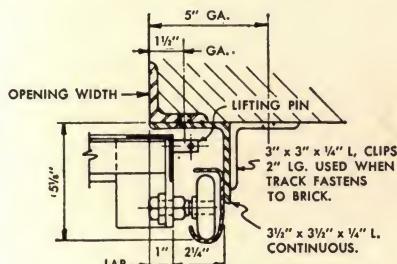
and 16'0" wide

All openings over 20'0" wide

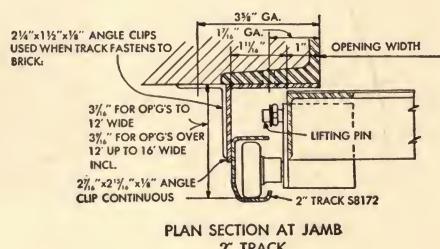
CHAIN GEAR OPERATION

Standard on doors for openings exceeding: 100 sq. ft. area or 10'0" opening height

MANUAL (HAND OPERATION)
Gearing omitted. Standard on doors for smaller openings.

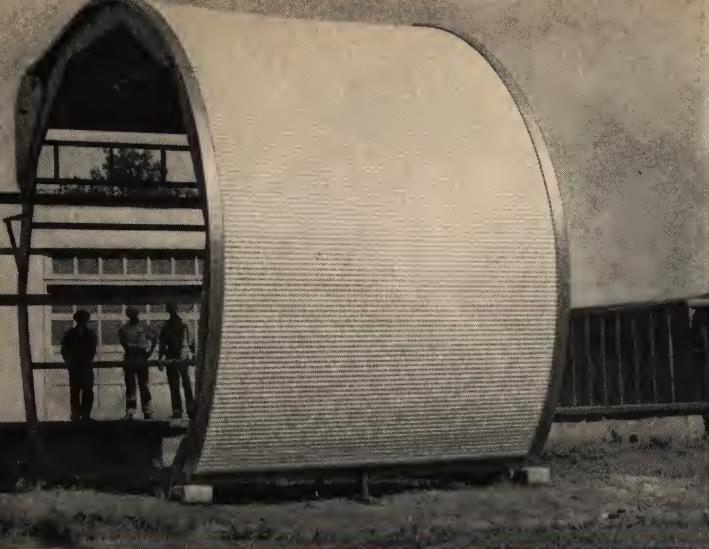


PLAN SECTION AT JAMB
3" TRACK



PLAN SECTION AT JAMB
2" TRACK

The **WILSON** Corporation



RADOME WINDOW SHIELD

A few years ago the J. G. Wilson Corporation undertook the development of a protective shield for precision radar missile tracking equipment, which was being supplied for various Air Force installations. Working closely together, Wilson and prime contractor engineers developed within a short time the radome window shield.

Special Products

Ever since its inception in 1876 Wilson has specialized in manufacturing unusual and unique products to solve specific closure problems.

Experience has proven that Wilson engineers are able to adapt existing products or design new ones to suit almost any type of rolling closure problem.

In the following two pages are listed only a few of the many such applications and installations.

In addition to these products Wilson has manufactured special chain lift counter weighted wood Bi-parting Doors in Louisville, Kentucky designed for positive opening and closing.

Also a Wilson special application of a Midget Slat Shutter for trucks is the Koildor. This closure is installed on the rear of the vehicle. It provides real convenience by rolling up out of the way minimizing the chance of damage.

Wilson manufactures a combination rolling steel door and grille closure where ventilation, light and maximum security are required.

If you have a rolling closure problem Wilson would like to help you work out a practical solution.

ONE SECTION WOOD OVERHEAD DOOR



Philadelphia architects, Ballinger & Co., working with contractor, Barclay White & Co., were designing a Food Distribution Warehouse for the City of Philadelphia which required a single section, straight vertical-lift wood overhead door with a two-piece wicket door in the center extending the full opening height. Wilson engineers came to their aid. A wood overhead door was developed specifically to meet these requirements.

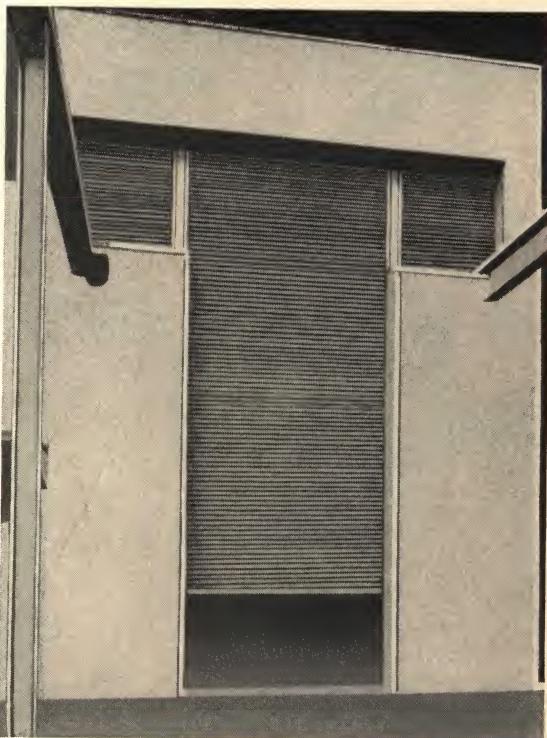
ESCALATOR ENCLOSURES



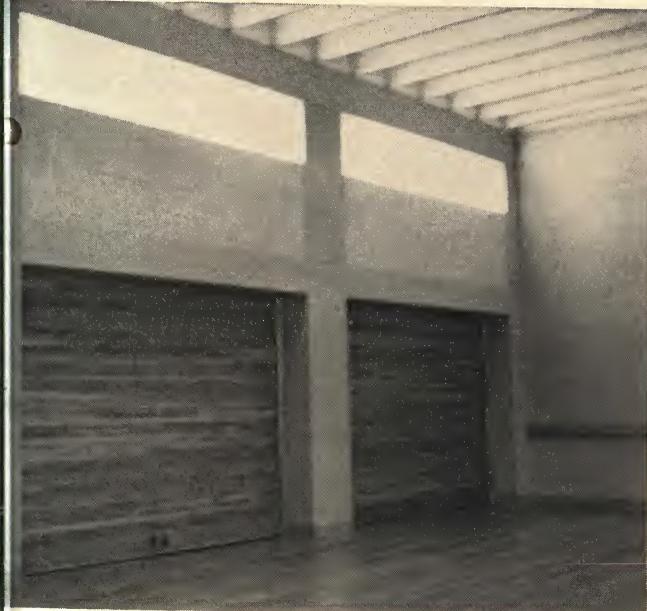
Wilson manufactures special closures for escalators to prevent the spread of fire between floors of a building. For detailed information, contact our Engineering Department.

SPECIAL PRODUCTS

g



ROLLING WOOD PARTITIONS



Wilson manufactures special wood horizontal and vertical rolling partitions used in churches and schools as room dividers. Also, they are adaptable to counter openings and wardrobes. Wilson rolling partitions will provide many years of admirable service.

CRANEWAY DOORS

Wilson has been a pioneer in developing Craneway Doors. Experience acquired through years of development enables Wilson engineers to solve the problems involved in Craneway installations.

LARGE DOORS



Wilson specializes in manufacturing large rolling doors of all types. The Wilson engineers have many years of valuable experience in overcoming the myriad of difficulties involved in the manufacture of such doors. Recently, Wilson has made an installation of four 40'-0" wide doors of Underwriter construction in Teterboro, New Jersey. Pictured is a 44'-0" wide grille which is just one sample of Wilson ingenuity with large closures.

Contact your local Wilson representatives in the cities listed by states below:

Alabama	Birmingham Montgomery	Nebraska	Omaha
California	Belmont Los Angeles San Francisco	New Jersey	Upper Montclair
Colorado	Denver	New Mexico	Albuquerque
Delaware	Delmar	New York	Buffalo New Hartford New York Rochester Syracuse
Florida	Jacksonville Miami Orlando Tampa	North Carolina	Charlotte Greensboro Winston-Salem
Georgia	Atlanta Augusta Savannah	Ohio	Canton Cleveland Toledo
Hawaii	Honolulu	Oklahoma	Tulsa
Illinois	Chicago	Oregon	Portland
Indiana	Elkhart Fort Wayne Indianapolis	Pennsylvania	Erie Lancaster New Castle Philadelphia Pittsburgh Scranton York
Iowa	Davenport Des Moines	Puerto Rico	Santurce
Kansas	Wichita	South Carolina	Charleston Greenville
Kentucky	Louisville	Tennessee	Bristol Kingsport Knoxville Memphis Nashville
Louisiana	New Orleans Shreveport	Texas	Amarillo Dallas El Paso Houston San Antonio
Maine	Portland	Utah	Salt Lake City
Maryland	Baltimore Hagerstown	Virginia	Norfolk Richmond
Massachusetts	Boston Holyoke	Washington	Seattle
Michigan	Detroit	Washington, D.C.	

Consult yellow pages of your telephone directory for addresses.

Catalog 60

The  **WILSON** Corporation

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Carol J. Dyson, AIA